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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,338	12/12/2002	Mansour J. Karam	24717-718	2450
	7590 01/03/2007 K & OWENS LLP		EXAMINER	
162 NORTH W	OLFE ROAD		BENGZON, GREG C	
SUNNYVALE, CA 94086			ART UNIT	PAPER NUMBER
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1) Responsive to communication(s) filed on 29 September 2006. 2a		Application No.	Applicant(s)	_			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAIL INC DATE OF THIS COMMUNICATION. Period for reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMED HE MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THIS COMMUNICATION. PROMOTHER TO BE ADMINISTED THE PROMOTHER MAIL INC DATE OF THE PROMOTHER MAIL INC DAT	Office Action Comments	10/070,338	KARAM ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address = Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Enherication dierm may be available under the previous of 37 CPT 11360, in no event, however, may reply be insuly filed in the providence of 17 CPT 11360, in no event, however, may reply be insuly filed in the providence of 18 CPT 11360 period for reply is specified above, the maximum statutory puriod will apply and will eigen SIX (8) MONTHS from the mailing date of the sommunication. Fallutes to reply within the size or vended period for reply is specified above, the maximum statutory puriod will apply and will eigen SIX (8) MONTHS from the mailing date of the sommunication, when it limitly filed, may reduce any carried patient for mailing date of the mailing date of this communication, even if timely filed, may reduce any carried patient for mailing date of the mailing date of this communication, even if timely filed, may reduce any carried patient form adjustment. See 37 CPTR 1.76(4). Status **Status** **This action is FINAL.** **20 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s)	Oπice Action Summary	Examiner	Art Unit	_			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. and SIX (6) MORTHS from the making date of this communication. BY Operand for rays is specified store, the maintains attacts period will apply and will august \$2(6) MORTHS from the making date of this communication. BY Operand for rays is specified store, the maintains attacts period will apply and will august \$2(6) MORTHS from the making date of this communication. Failure to raps whithe the source extended period for rays vist, by statutor, period will apply and will august \$2(6) MORTHS from the making date of this communication, to become ABANDONED (25 U.5 C. § 133). Failure to raps whithe the source cannot be application to become ABANDONED (25 U.5 C. § 133). BY Operand the made of the making date of this communication, which is administration and the making date of this communication. Failure to reply whithe the source of the making date of this communication, which is administration and the making date of this communication. BY OPERANDONE (A) (2000 A) (2			i I				
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3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-47 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-882) 2) Notice of Transpersion's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB08) 5 Notice of Informal Patent Application Policy Paper No(s)/Mail Date 5 Notice of Informal Patent Application Policy Paper No(s)/Mail Date 5 Notice of Informal Patent Application Policy Paper No(s)/Mail Date 5 Notice of Info	<u> </u>						
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Paper No(s)/Mail Date 5. Patent and Trademark Office			d Office /tollott of form 1 10-132.				
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DETAILED ACTION

This application has been examined. Claims 1-47 are pending.

Priority

This application claims benefits of priority from Provisional Application 60/241450 filed October 17, 2000.

The effective date of the claims described in this application is October 17, 2000.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on 10/24/2006, 11/06/2006, 12/04/2006 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,4,5, 17-21,24,27,28, 40-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Juttner (US Patent 7020086).

Juttner disclosed (re. Claim 1) a network path, including a first segment and a second segment (Juttner-Column 3 Lines 5-15)

accessing a first metric and a second metric (Juttner-Column 2 Lines 40-45, Column 11 Lines 40-45), wherein the first metric and the second metric are at least in part quality characterizations of a same plurality of one or more network applications (Juttner-Column 1 Lines 40-45), the quality characterization characterizes a quality of the same plurality of one or more network applications running at one or more segment end-points (Juttner-Column 2 Lines 1-5), the first metric and the second metric are at least partly a function of a same plurality of one or more elementary network parameters (Juttner-Column 2 Lines 40-45, Column 11 Lines 40-45), the plurality of one or more network parameters include one or more of delay (Juttner-Column 2 Lines 40-45, Column 11 Lines 40-45), jitter, loss, currently available bandwidth, and intrinsic

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bandwidth, the first metric is at least partly the function of the same plurality of elementary network parameters of the first segment (Juttner-Column 2 Lines 40-45, Column 11 Lines 40-45), the one or more segment end points include one or more endpoints of the first segment, the second metric (Juttner-Column 2 Lines 40-45, Column 11 Lines 40-45) is at least partly the function of the same plurality of elementary network parameters (Juttner-Column 2 Lines 40-45, Column 11 Lines 40-45) of the second segment, and the one or more segment end points include one or more endpoints of the second segment; and

adding the first metric and the second metric to generate a third metric (Juttner-Column 3 Lines 10-15, Column 11 Lines 30-45), wherein the third metric is at least partly the function of the same plurality of one or more elementary network parameters of the network path, the one or more segment end points include one or more endpoints of the network path, and

the third metric is a quality characterization of the same plurality of one or more applications.

Claim 24 is rejected on the same basis as Claim 1.

Juttner disclosed (re. Claim 4,27) wherein at least one of the plurality of one or more network parameters is dynamic.(Juttner-Column 2 Lines 1-5, Juttner-Column 3 Lines 10-15) The Examiner notes delay and jitter are dynamic parameters.

Juttner disclosed (re. Claim 5,28) wherein at least one of the plurality of one or more network parameters is static. (Juttner-Column 2 Lines 1-5, Juttner-Column 3 Lines 10-15) The Examiner notes that the hop count is static.

Juttner disclosed (re. Claim 17,40) a delay parameter. (Juttner-Column 2 Lines 1-5, Juttner-Column 3 Lines 10-15)

Juttner disclosed (re. Claim 18,41) wherein the plurality of one or more network parameters include jitter (Juttner-Column 3 Lines 30-40); (re. Claim 19,42) wherein the plurality of one or more network parameters include loss (Juttner-Column 3 Lines 30-40); (re. Claim 20,43) wherein the plurality of one or more network parameters include currently available bandwidth (Juttner-Column 5 Lines 65); (re. Claim 21,44) wherein the plurality of one or more network parameters include intrinsic bandwidth (Juttner-Column 5 Lines 65);

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2,3,6-16,25,26,29-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Juttner (US Patent 7020086) in view of Hultgren (US Patent 6134589).

While Juttner substantially described the invention, Juttner did not disclose (re. Claim 2,25) prior to accessing the first or the second metric, generating at least one of the first metric and the second metric (Juttner-Column 2 Lines 1-5, Juttner-Column 3 Lines 10-15)

Hultgren disclosed (re. Claim 2,25) prior to accessing the first or the second metric, generating at least one of the first metric and the second metric (Hultgren-Column 13 Lines 30-65)

Juttner and Hultgren are analogous art because they disclose concepts and practices regarding determining path quality using linear equations. Accordingly, at the time of the invention it would have been obvious to a person of ordinary skill in the networking art to combine the teachings of Hultgren into Juttner. The motivation for

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said combination would have been, (Hultgren-Column 1 Lines 60-65), to determine an acceptable sequence of links for UDP, TCP, and HTTP applications.

Juttner-Hultgren disclosed (re. Claim 3,26) prior to accessing the first or the second metric, receiving at least one of the first metric and the second metric. (Hultgren-Column 13 Lines 30-65)

Juttner did not disclose (re. Claim 6,7,11,29,30,34) UDP and TCP applications [where the UDP applications involve voice applications and TCP applications involve data transfer applications.]

Juttner did not disclose (re. Claim 12,13,14,35,36,37) HTTP, HTTP/1.0, and HTTP/1.1 applications [where HTTP applications include data transfer applications.]

Hultgren disclosed (re. Claim 6,7,11,29,30,34) UDP and TCP applications [where the UDP applications involve voice applications and TCP applications involve data transfer applications.] (Hultgren-Column 6 Lines 35-45)

Juttner and Hultgren are analogous art because they disclose concepts and practices regarding determining path quality using linear equations. Accordingly, at the time of the invention it would have been obvious to a person of ordinary skill in the

networking art to combine the teachings of Hultgren into Juttner. The motivation for said combination would have been, (Hultgren-Column 1 Lines 60-65), to determine an acceptable sequence of links for UDP, TCP, and HTTP applications.

Hultgren disclosed (re. Claim 12,13,14,35,36,37) HTTP, HTTP/1.0, and HTTP/1.1 applications [where HTTP applications include data transfer applications.] (Hultgren-Column 6 Lines 35-45)

Juttner and Hultgren are analogous art because they disclose concepts and practices regarding determining path quality using linear equations. Accordingly, at the time of the invention it would have been obvious to a person of ordinary skill in the networking art to combine the teachings of Hultgren into Juttner. The motivation for said combination would have been, (Hultgren-Column 1 Lines 60-65), to determine an acceptable sequence of links for UDP, TCP, and HTTP applications.

Juttner-Hultgren disclosed (re. Claim 8,9,10,31,32,33) network applications including voice, video, and video conferencing; (Juttner-Column 1 Lines 40-50);

Juttner-Hultgren disclosed (re. Claims 15,38) ftp applications (Juttner-Column 1 Lines 40-50);

Juttner-Hultgren disclosed (re. Claim 16,39) telnet applications (Juttner-Column 1 Lines 40-50).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 22-23, 45-46, 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Juttner (US Patent 7020086) in view of Saleh (US Patent 7002917).

Juttner did not disclose (re. Claim 22,45) wherein the metric includes non-performance related characteristics; (re. Claim 23,46) wherein the non-performance related characteristics includes pre-specified route preferences.

Saleh disclosed (re. Claim 22,45) wherein the metric includes non-performance related characteristics (Saleh-Column 5 Lines 25-30, Column 33 Lines 35-40); (re. Claim 23,46) wherein the non-performance related characteristics includes prespecified route preferences. (Saleh-Column 5 Lines 25-30, Column 33 Lines 35-40)

Juttner and Saleh are analogous art because they present concepts and practices regarding path characterization measurements. Accordingly, at the time of the invention it would have been obvious to a person of ordinary skill in the networking art to combine the teachings of Saleh and Juttner. The motivation for said combination would

have been, as Saleh suggests (Saleh-Column 2 Lines 15-20), to implement a fast, efficient method for the most preferable path.

While Juttner disclosed (re. Claim 47) first, second, and third metric, Juttner did not disclose (re. Claim 47) a plurality of one or more inputs adapted to be coupled to the network path; and a plurality of one or more outputs coupled to the plurality of one or more inputs, wherein responsive to a plurality of one or more packets arriving to the network device through the plurality of one or more inputs, the network device selects at least one output from the plurality of one or more outputs, and the at least one output is determined at least partly using at least one of the first metric, second metric, and third metric.

Saleh disclosed (re. Claim 47) a path matrix configuration (Saleh-Column 23 Lines 1-5) and adding the metric from each segment (corresponding to first metric, second metric, and third metric) (Column 33 Lines 35-40) in order to select the desired path (Column 32 Lines 50-55).

Juttner and Saleh are analogous art because they present concepts and practices regarding path characterization measurements Accordingly, at the time of the invention it would have been obvious to a person of ordinary skill in the networking art to combine the teachings of Saleh and Juttner. The motivation for said combination would have been, as Saleh suggests (Saleh-Column 2 Lines 15-20), to implement a fast, efficient method for the most preferable path.

Response to Arguments

Applicant's arguments filed 09/29/2006 have been considered but are moot in view of the new ground(s) of rejection.

The Applicant presents the following argument(s) [in italics]:

'the present invention generate metrics along multiple segments and then add them to determine a metric for the total path'

The Examiner presents prior art by Juttner disclosing cumulative metrics and adding metrics for all links along a path.

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part

of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to the enclosed PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Bengzon whose telephone number is (571) 272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571)272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

gcb

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